Service
Service
Service

Service Manual

Contents **Page**

Specification	2
Controls & Connections	3
Alignment & Adjustments	6
Mainbord Test Point	8
Wiring Diagram	9
Schematic Diagram - Tuner	10
Schematic Diagram - Function Selection Switch	11
Schematic Diagram - Power Amp	12
PC Board - Component Side - Main PCB	13
PC Board - Solder Side - Main PCB	14
Schematic Diagram - Front	15
PC Board - Component Side - Front PCB	16
PC Board - Solder Side - Front PCB	17
Mechanical Exploded View	18
Mechanical Parts List	19
Replacement Parts List	20

Published by Philips Consumer Electronics Printed in the Netherlands ©Copyright reserved Subject to modification 4822 725 24751

PCS 79 317

PHILIPS

Specifications

STANDARD TEST CONDITIONS

SUPPLY VOLTAGE:	AC 230V, 50Hz
REFERENCE OUTPUT:	500 mW (Into 8 ohm Load)
AM ANTENNA:	IRE Loop
AM STANDARD SIGNAL:	400 Hz, 30% Modulation at 1MHz
FM ANTENNA:	75 ohm Balanced
FM STANDARD SIGNAL:	1 kHz, 45 kHz Deviation at 98 MHz

AM BAND

NOMINAL

Frequency Range	522—1611 kHz
IF Frequency	450 kHz
Usable Sensitivity S/N @20dB	800 uV/m
IF Rejection at 603 kHz	50 dB
Image Rejection at 1404 kHz	40 dB
AGC Figure of Merit (Ref: 100 mV/m)	45 dB

FM BAND

Frequency Range	87.5—108 MHz
IF Frequency	10.7 MHz
Mono 26 dB/ST. 46 dB Quieting Sensitivity	4/100 μV
IF Rejection at 90 MHz	70 dB
Image Rejection at 106 MHz	65 dB
AM Suppression	40 dB

AMPLIFIER SECTION

Speaker Impedance: 8 ohms each Channel.
Reference Level: 500 m Watt each Channel.

0.9% THD Power at 20kHz	55 Watts
Total Harmonic Distortion	0.2% @ Reference level
S/N Ratio	95 dB
Channel Separation (at 1 kHz)	50 dB
Graphic Equalizer Effect:	
Base 1 (at 100 Hz)	
Boost	+10 dB ± 3 dB
Cut	−10 dB ± 3 dB
Trable 1 (at 10 kHz)	
Boost	+10 dB ± 3 dB
Cut	−10 dB ± 3 dB

Controls & Connections

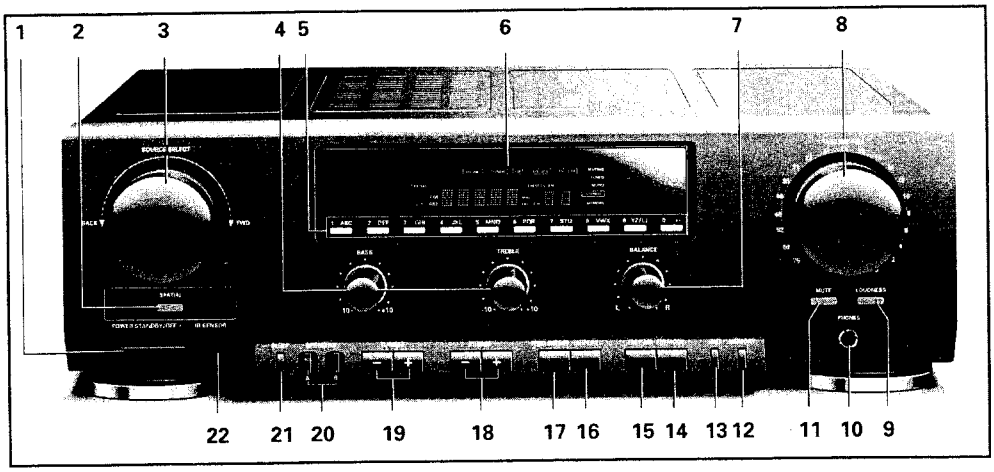


Figure 1

CONTROLS

1 **POWER STANDBY/OFF** – for switching on to standby mode and for switching off.
2 **SPATIAL** – to extend the stereo effect to a spatial stereo sound.
3 **SOURCE SELECT** – for selecting the desired listening source.
4 **BASS** – for adjusting the bass tones.
TREBLE – for adjusting the high tones.
5 **Digit keys**
– for selecting 30 preset stations.
– for entering data when programming station name and when using the direct tuning function.
6 **Display**
7 **BALANCE** – for adjusting the balance of the volume between the left and right channels.
8 **VOLUME** – for adjusting the volume.
9 **LOUDNESS** – for increasing the treble and bass response at low volume settings.
10 **PHONES** – socket for stereo headphones
- You may connect a pair of stereo headphones with 6.3 mm plug to this socket.
Inserting the plug will ***not*** disconnect the speakers.

11 **MUTE** – for decreasing the volume by 20 dB (= factor 10).
12 **MEMORY** – for opening and closing the memory when programming preset stations.
13 **SND** (Station Name Display) – for entering a station name for a tuner preset.
14 **FM MODE** – for selecting mono or stereo reception.
15 **FM/AM** – selecting reception of FM or AM (MW) stations.
16 **DISPLAY** – for selecting the frequency or the station name of a preset station to be shown on the display.
17 **FREQ**(uency) **DIRECT** – for direct tuning to the station frequency.
18 **PRESET –/+** – for selecting the next or previous tuner preset.
19 **TUNING –/+** – frequency up/down.
20 **SPEAKERS A** – for switching on and off a pair of speakers connected to the SPEAKERS A terminals.
SPEAKERS B – for switching on and off a pair of speakers connected to the SPEAKERS B terminals.
21 **SLEEP** – to set a time period after which the system will automatically be switched to standby (off).
22 **I**(nfra) **R**(ed) **SENSOR** – infrared remote control eye. For receiving signals from the remote control.

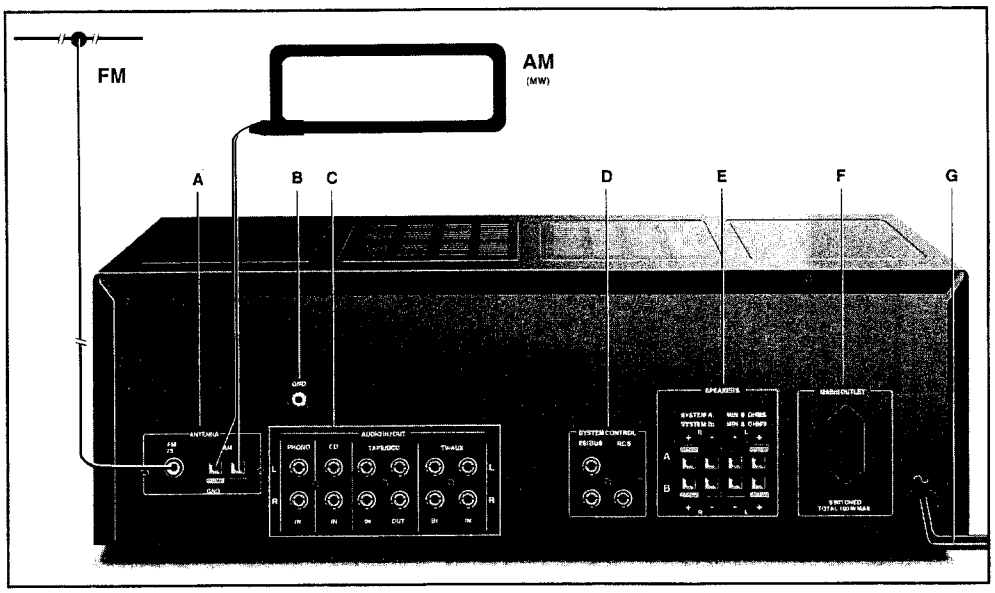


Figure 2

You only have to install your system once.
Please make the following connections (whenever applicable).
***Note:* Switch off the receiver before making any connections.**

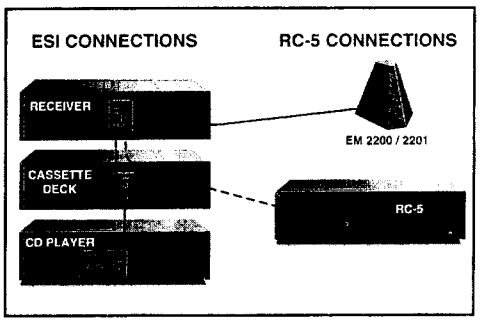
CONNECTIONS

A ANTENNA
- **FM 75** Ω – The FM terminal is used for connection to the Community or Cable Antenna system or to a roof-mounted FM antenna.
  If none of these are available, you may use the wire supplied for nearby stations (reception could be poor).
- **GND** – terminal for connection of the ground wire of your antenna.
- **AM** – For AM reception connect the supplied wires to the GND and AM antenna terminals (one wire to the GND and one wire to the AM terminal) and position the antenna for best reception.
  Note: Do ***not*** place the AM loop antenna on the unit, as this unit employs a computing device which could cause interference.

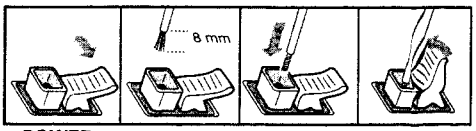
B PHONO GND ⏚ – for connecting the earth wire of a record player.

C AUDIO IN/OUT
- **PHONO** – input sockets for connecting a record player with an 'MM' (Moving Magnet) cartridge.
- **CD** – input sockets for connecting a CD (Compact Disc) player.
- **TAPE/DCC** – input and output sockets for connecting a cassette deck or a Digital Compact Cassette deck.
- **TV/AUX** – input sockets for connecting the sound channel of a TV set or video recorder and output sockets for extra sound recording equipment e.g. a cassette or tape deck or a HiFi stereo video recorder.

D SYSTEM CONTROL
- **ESI BUS** (Enhanced System Intelligence) (coloured green) – Remote-control input/output sockets for connection to the corresponding ESI sockets of other components in your HiFi system (e.g. the Philips 900 series).
  Connect the ESI socket to the ESI socket of the external equipment that uses the ESI remote control system.
  Connecting the ESI BUS enables you to operate other components via the FR911's IR sensor.
- **RC-5 BUS** (coloured orange) – remote-control input/output socket for connection to the corresponding RC-5 socket of a Compact Disc player or remote control receiver e.g. EM 2200/2201.
  Connect the RC-5 socket to the RC-5 socket of the external equipment that uses the RC-5 remote control system.
  This socket has been added to maintain compatibility with older Philips Audio equipment.



E SPEAKERS
A – terminals for connecting a pair of speakers, impedance min. 8 ohms (L = left, R = right)
B – terminals for connecting a second pair of speakers impedance min. 8 ohms (L = left, R = right)
- One of the wires of a loudspeaker cable is marked with a colour or rib. Connect the marked wire to the red terminal, the non-marked wire to the black one.
  Make sure that all loudspeakers are connected in the same way.



POWER

F MAINS OUTLETS – switched AC power outputs for connecting power plugs from various units such as a cassette deck, CD player, etc. (maximum capacity is 100 W)

G Mains lead

After making all the necessary connections (some may not be applicable for your system set-up) your system is ready for use.
In the next chapter we will describe how to operate your FR911 receiver.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les piéces de rechange identiques à celles spécifiées.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Original zustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

(GB) **WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD

(NL) **WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) **ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

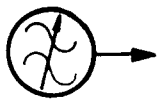
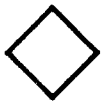
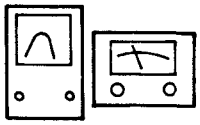
(D) **WARNUNG**

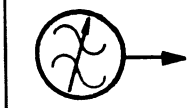
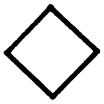
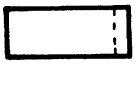
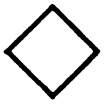
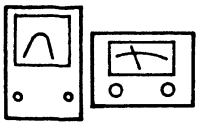
Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(I) **AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

Alignment & Adjustment

SK...						
IF Alignment						
AM	450kHz	A	450kHz	T101	*1	MAX
FM	10.7MHz	B	10.7MHz	T102	*2	0.0V
RF Alignment						
AM	522kHz	A	522kHz	L102	*3	1.2V ± 0.05V
AM	1611kHz	A	1611kHz	TC102	*3	8.5V ± 0.05V
FM	87.5MHz	B	87.5MHz	—	*3	1.2V ± 0.05V
FM	108MHz	B	108MHz	—	*3	7.5V
Sensitivity Alignment						
AM	600kHz	A	600kHz	L101	*4	↕MAX.
AM	1400kHz	A	1400kHz	TC101	*4	↕MAX.
FM	90MHz	B	90MHz	—	*4	↕MAX.
FM	106MHz	B	106MHz	—	*4	↕MAX.

SK...						
T. H. D. Adjustment						
FM	98MHz MOD. = 1kHz DEV. = 75kHz	B #1		T102	*5	0.0V
FM	98MHz MOD. = 1kHz DEV. = 75kHz	B #1		T103	*5	T.H.D MIN.
Auto Tuning Sensitivity Adjustment						
FM	98MHz/20dB	B	98MHz	SFR102	*4	LOCK AT 26dB
AM	1000kHz/60dB	A	1000kHz	SFR101	*4	LOCK AT 60dB
MPX Separation Adjustment						
FM	98MHz	B	98MHz	SFR103	*4	SEPARATION OVER 35dB

*1 Across TP7 & TP5
*2 Across TP6 & TP5
*3 Across TP1 & TP2
*4 Across Speaker Output
*5 Across TP3 & TP4
#1 See Fig. 3
Repeat ↕

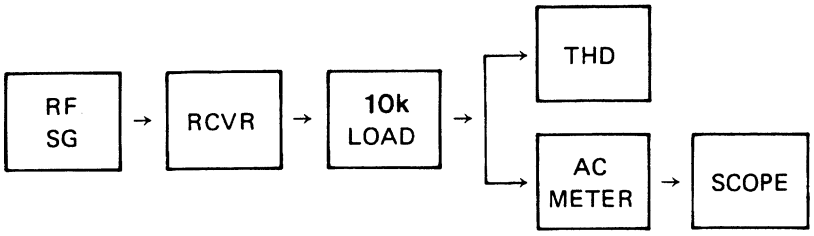
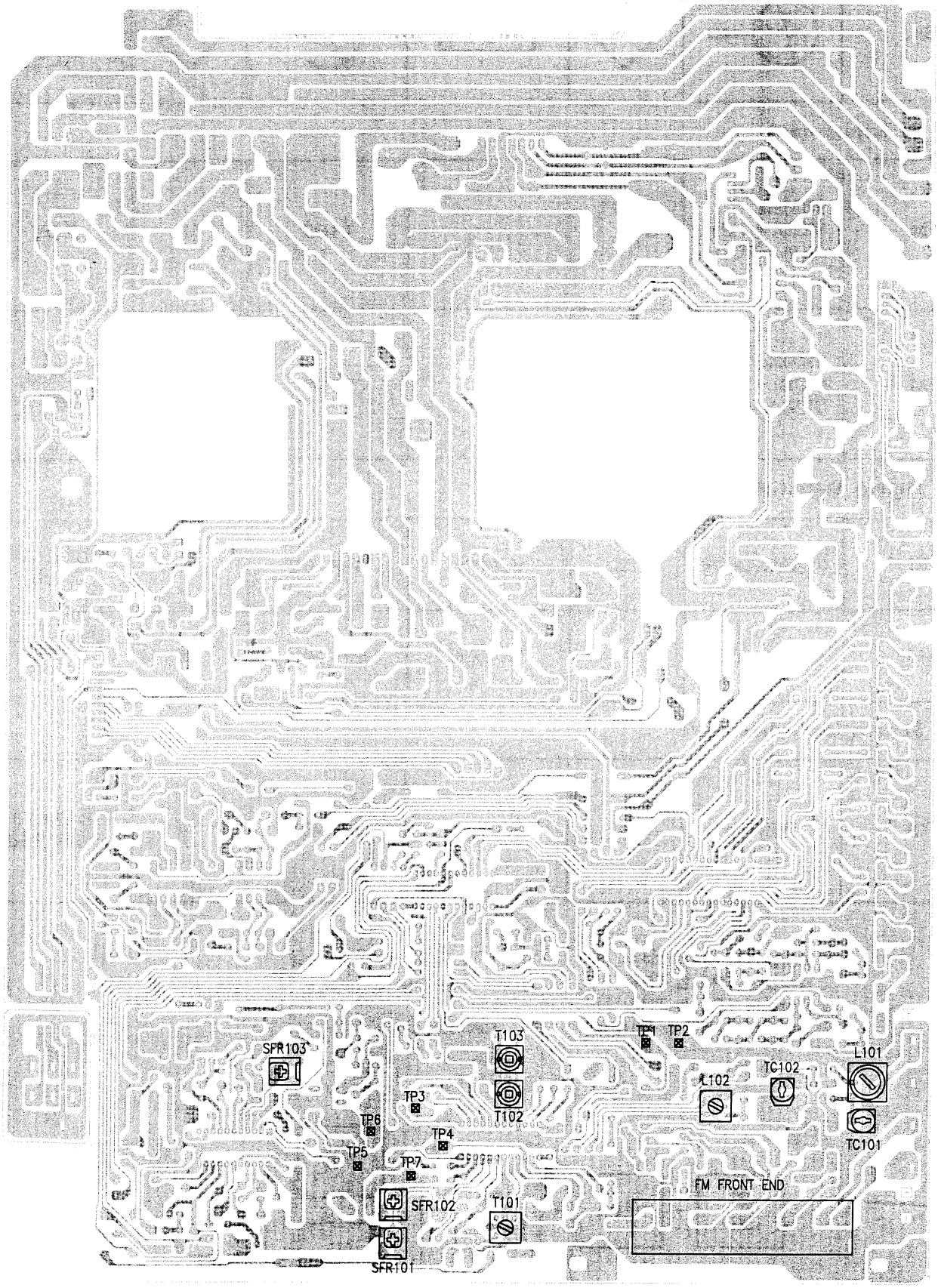


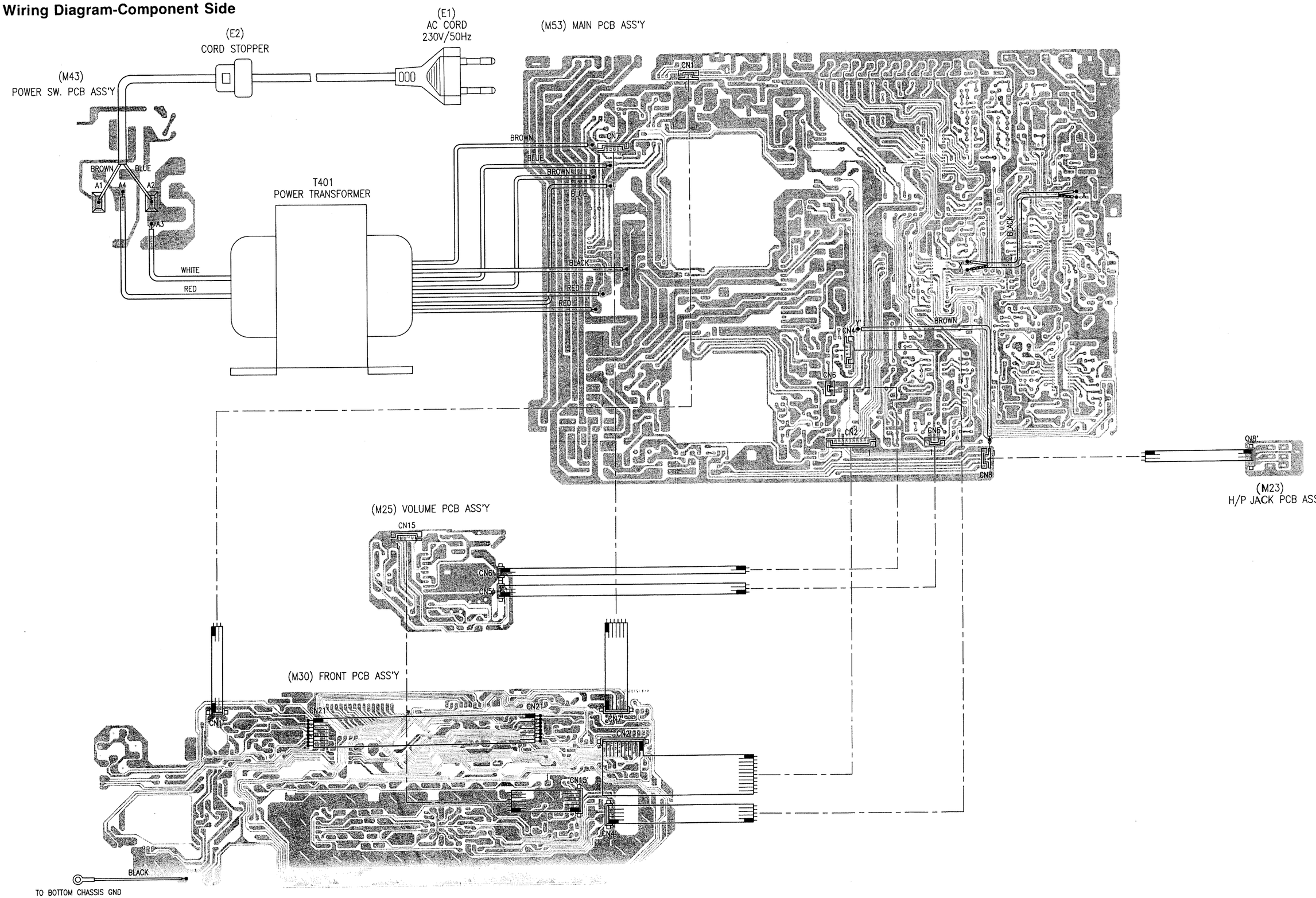
Figure 3

Main Board Test Point

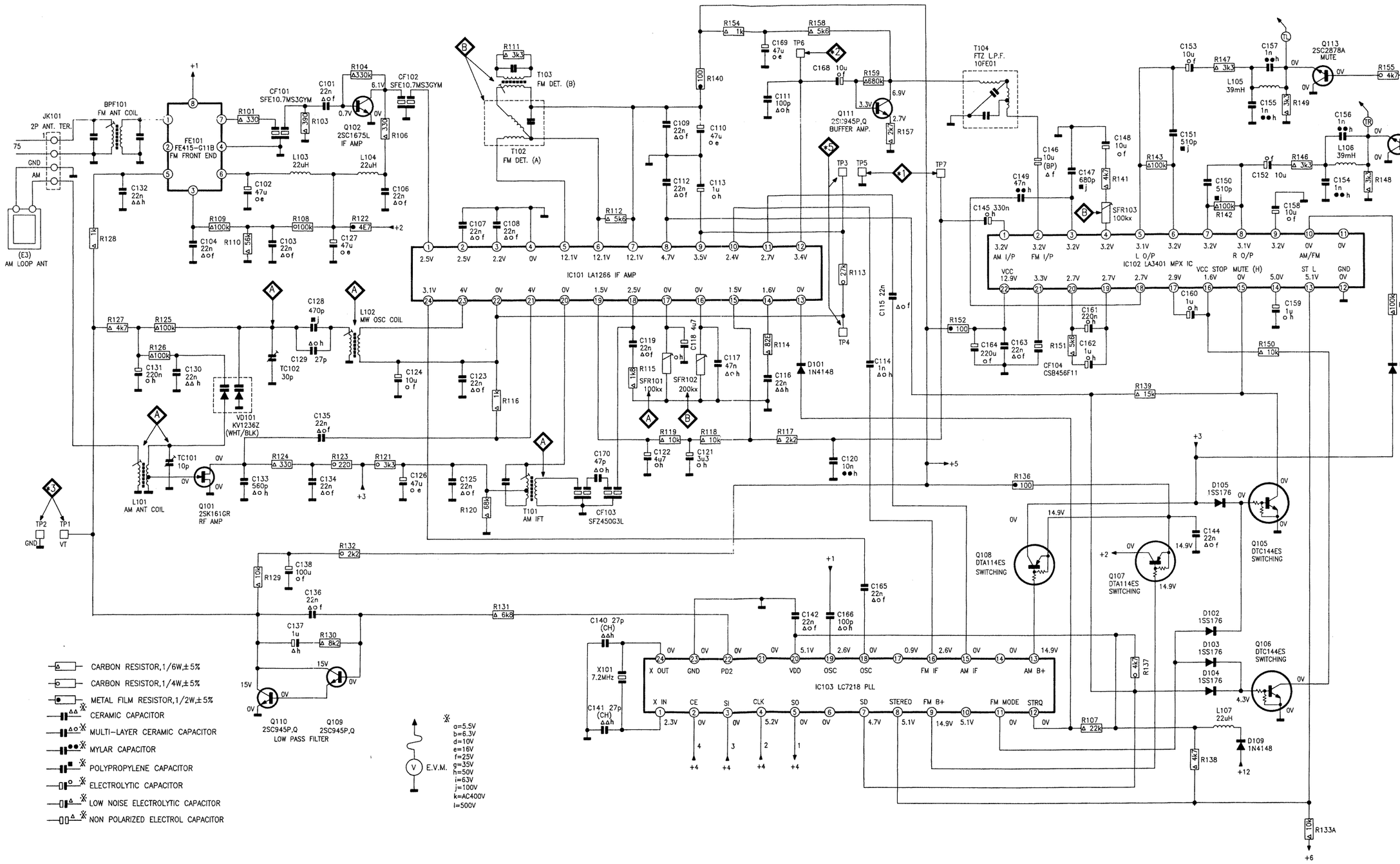
MAIN P C BOARD



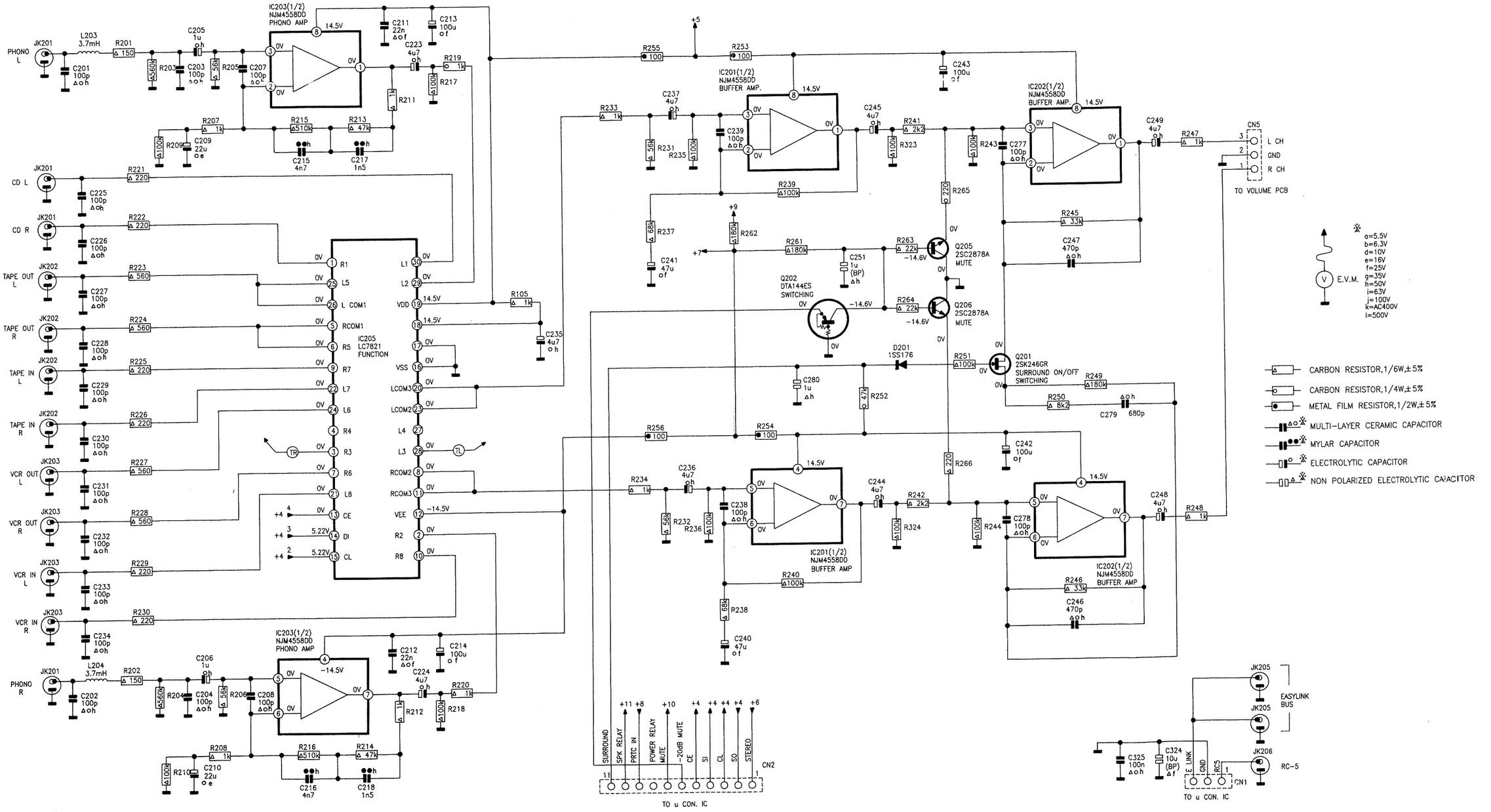
Wiring Diagram-Component Side



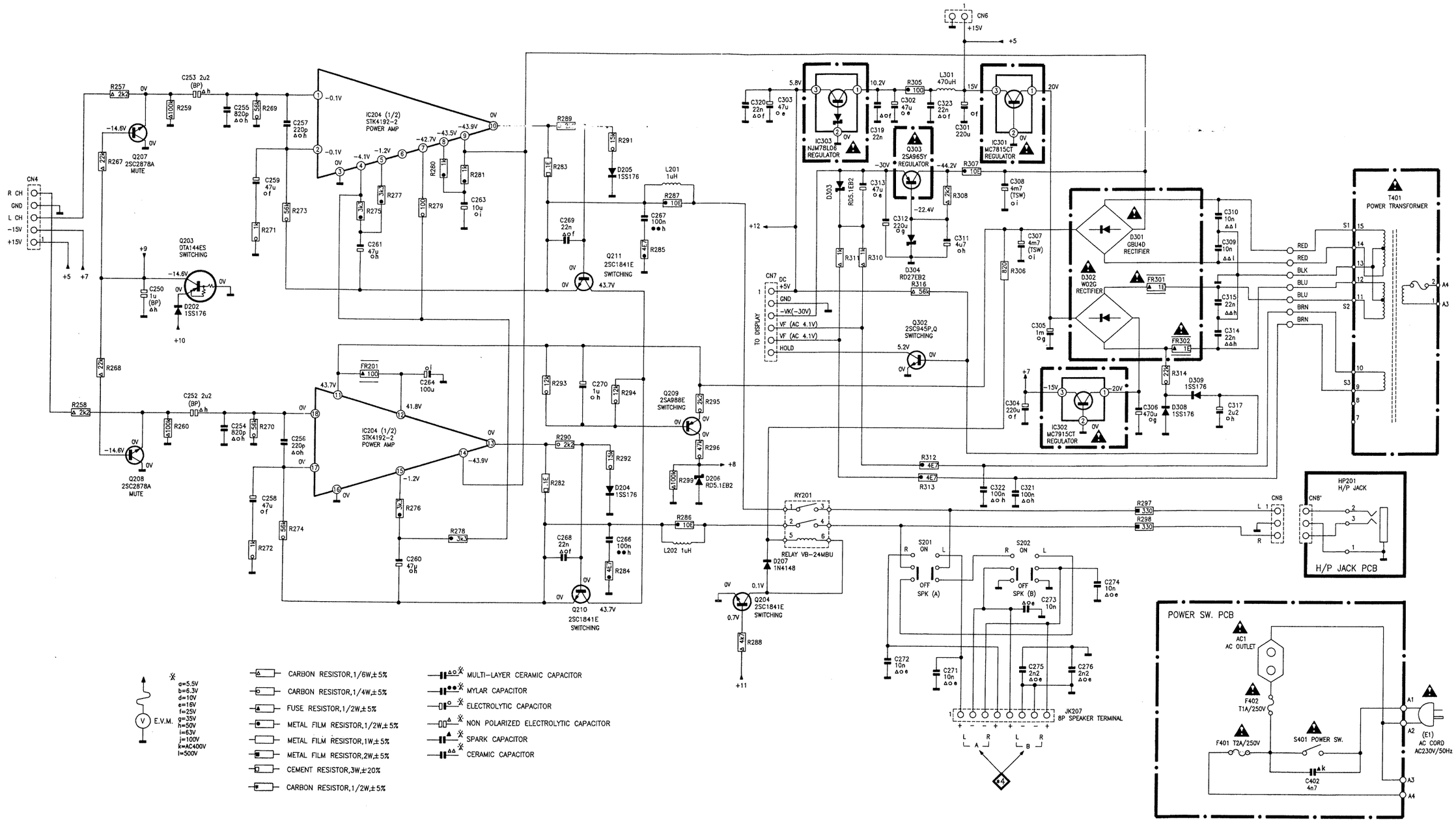
Schematic Diagram - Tuner



Schematic Diagram - Function Selector Switch



Schematic Diagram - Power Amp.

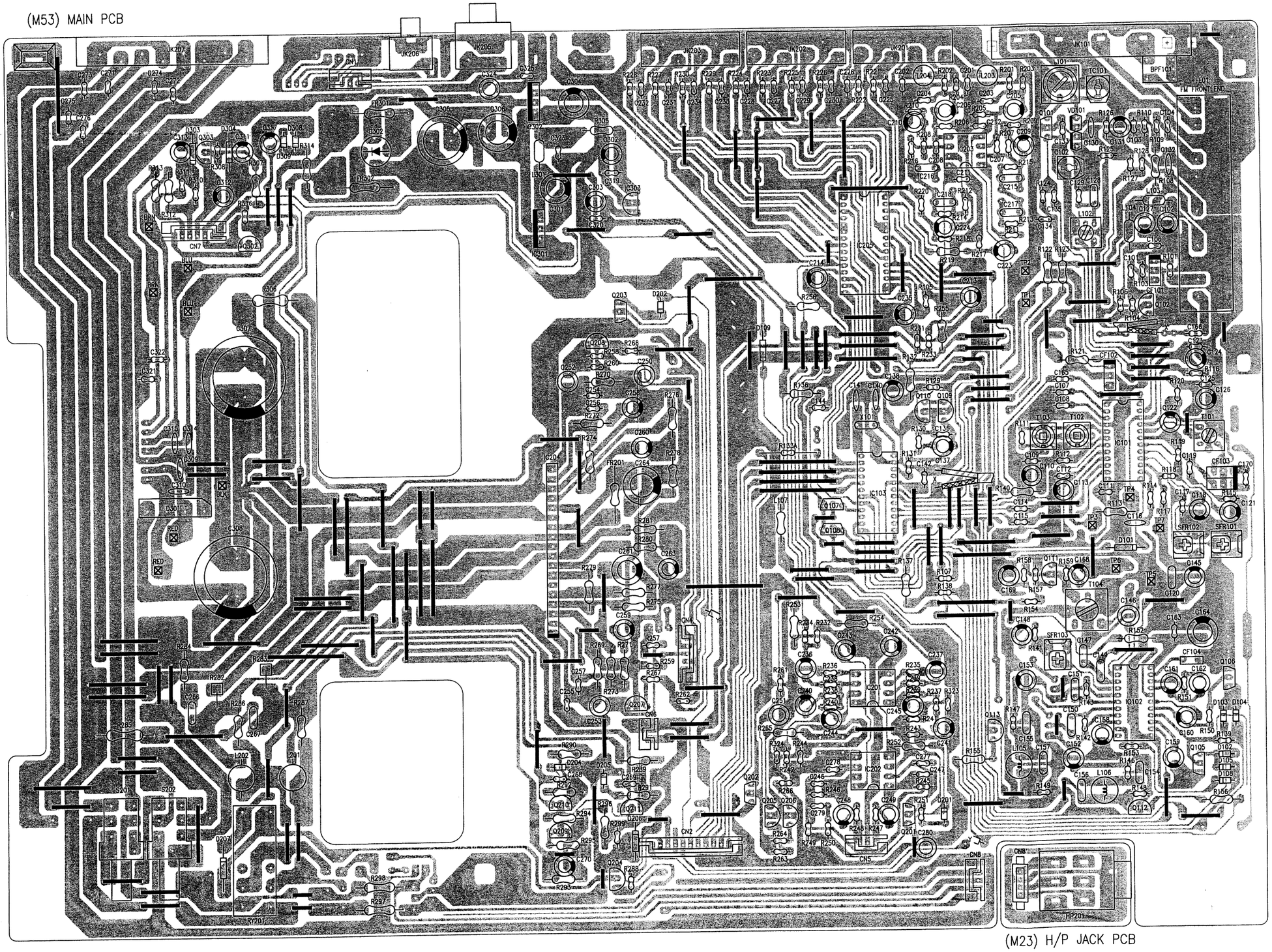


E.V.M.
a=5.5V
b=6.3V
d=10V
e=16V
f=25V
g=35V
h=50V
i=63V
j=100V
k=AC400V
l=500V

- CARBON RESISTOR,1/6W,±5%
- CARBON RESISTOR,1/4W,±5%
- FUSE RESISTOR,1/2W,±5%
- METAL FILM RESISTOR,1/2W,±5%
- METAL FILM RESISTOR,1W,±5%
- METAL FILM RESISTOR,2W,±5%
- CEMENT RESISTOR,3W,±20%
- CARBON RESISTOR,1/2W,±5%
- MULTI-LAYER CERAMIC CAPACITOR
- MYLAR CAPACITOR
- ELECTROLYTIC CAPACITOR
- NON POLARIZED ELECTROLYTIC CAPACITOR
- SPARK CAPACITOR
- CERAMIC CAPACITOR

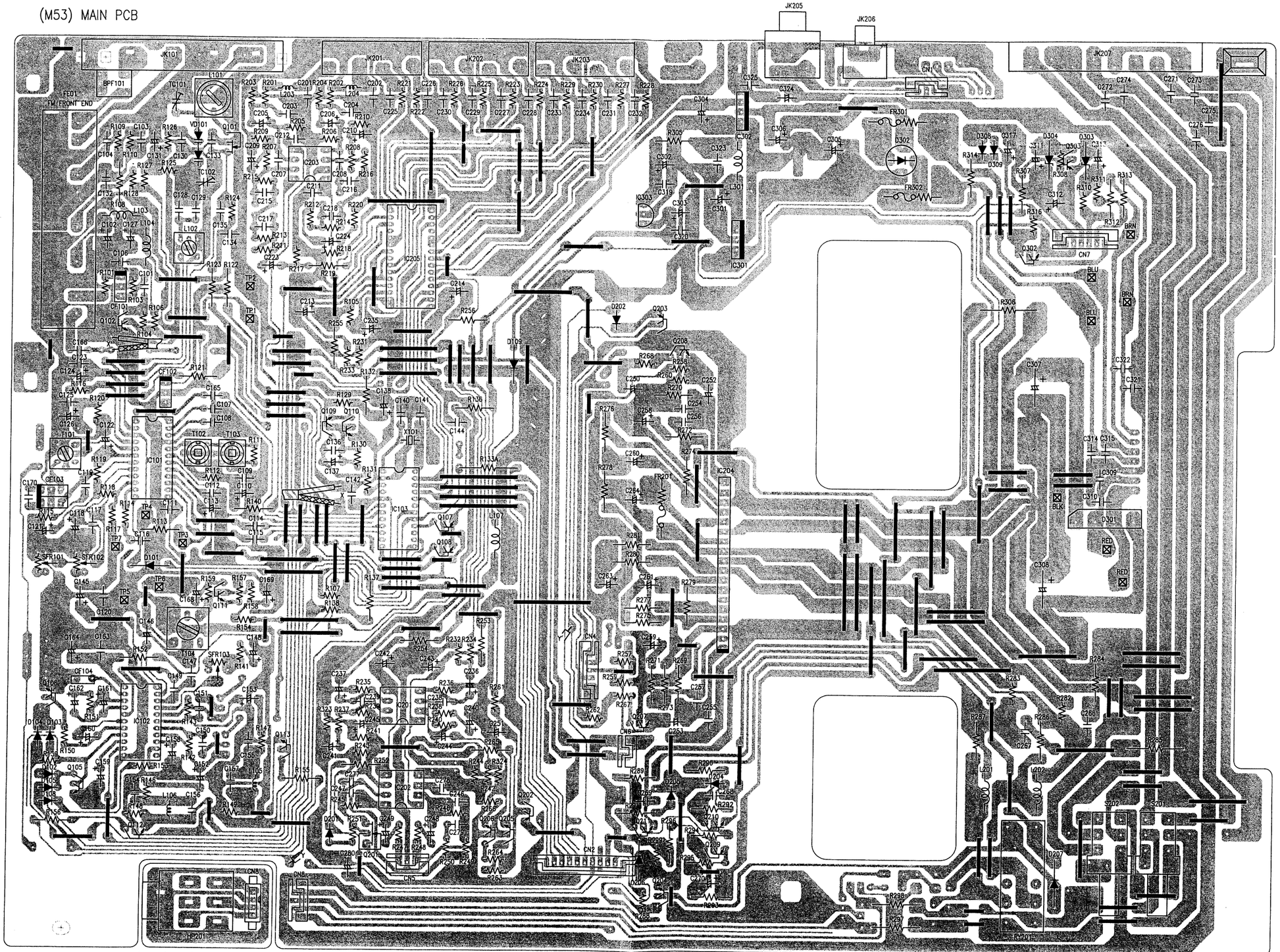
P C Board-Component Side

(M53) MAIN PCB



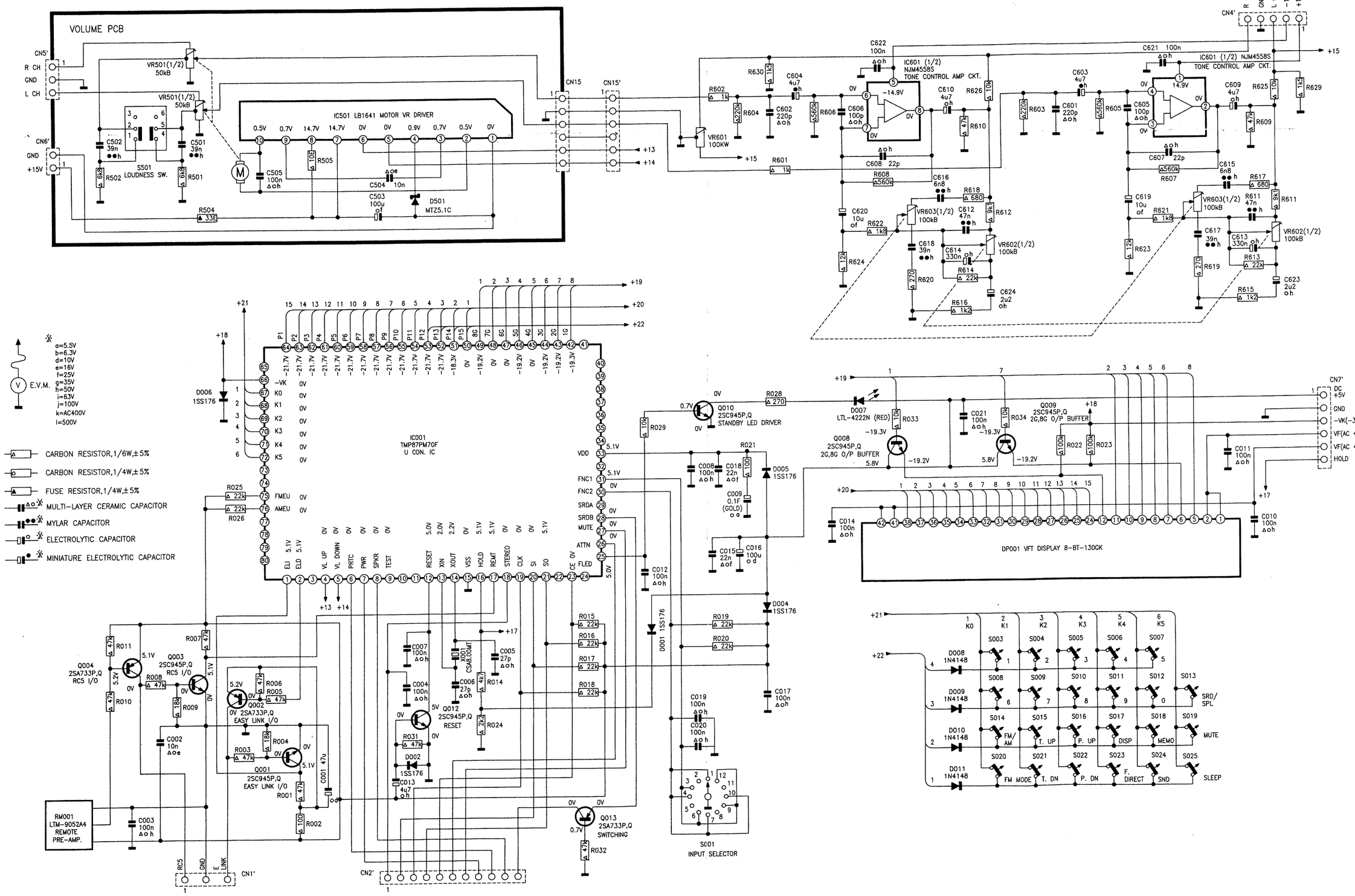
P C Board-Solder Side

(M53) MAIN PCB



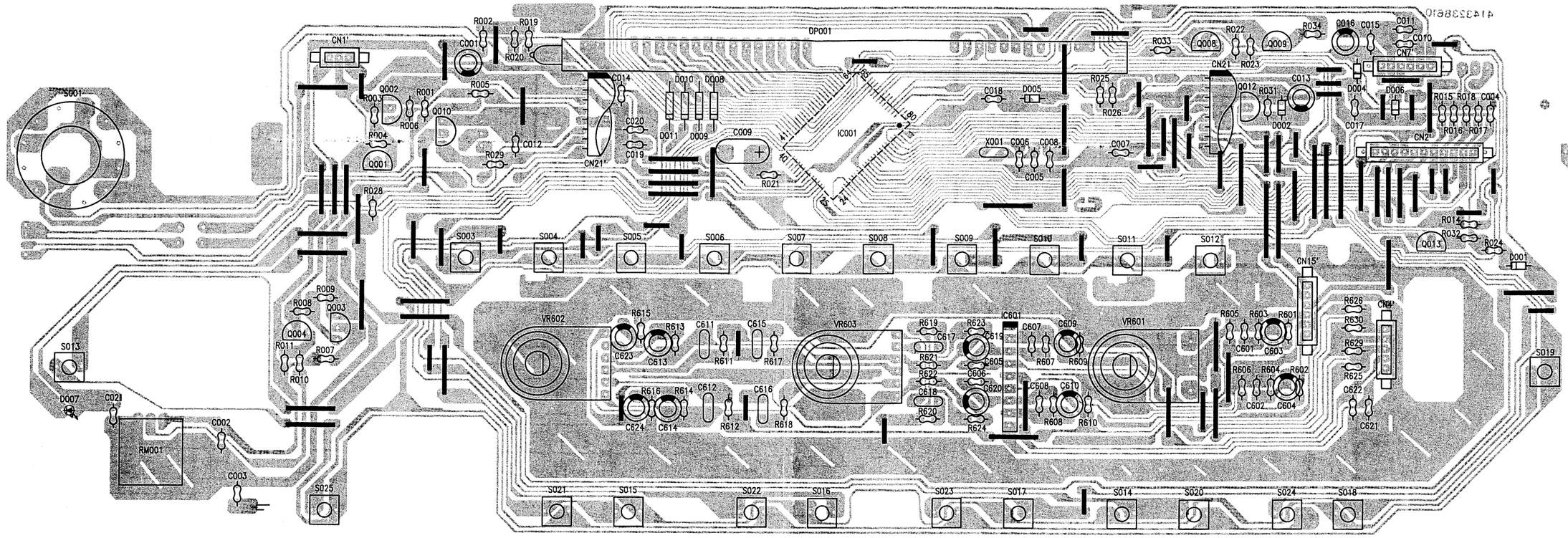
(M23) H/P JACK PCB

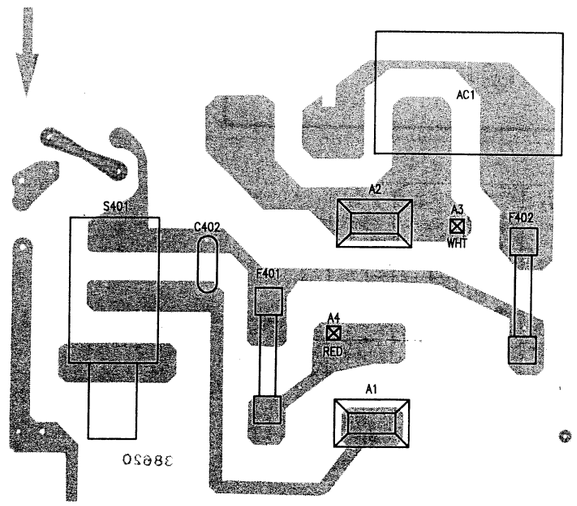
Schematic Diagram- Front



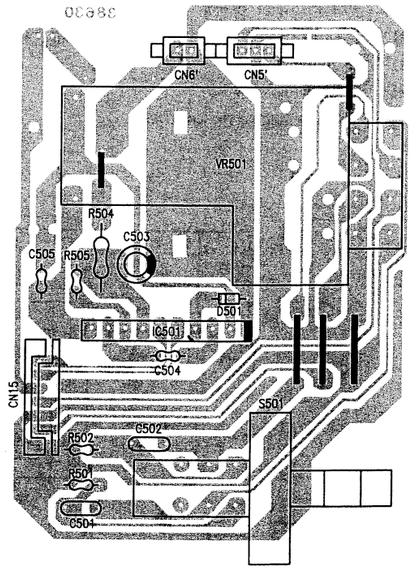
P C Board-Component Side

(M30) FRONT PCB





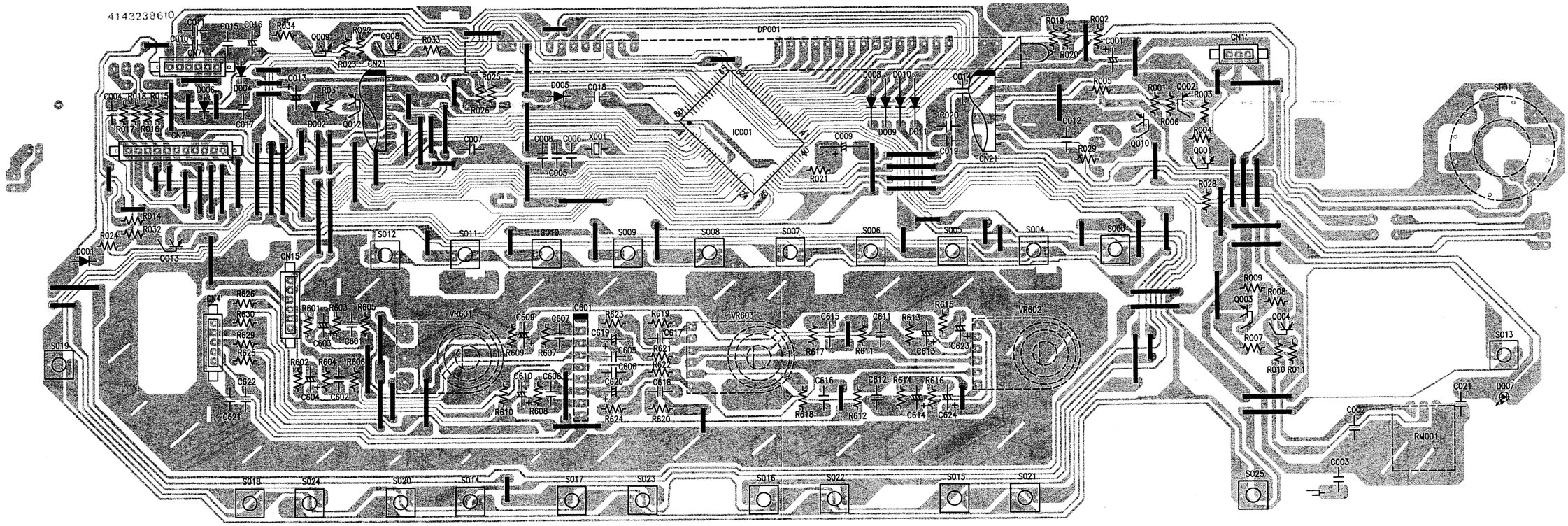
(M43) POWER SW. PCB

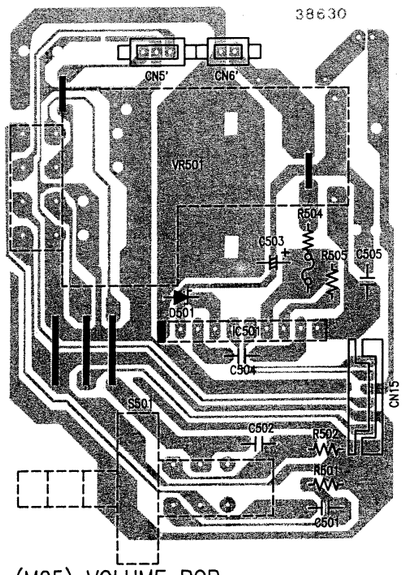


(M25) VOLUME PCB

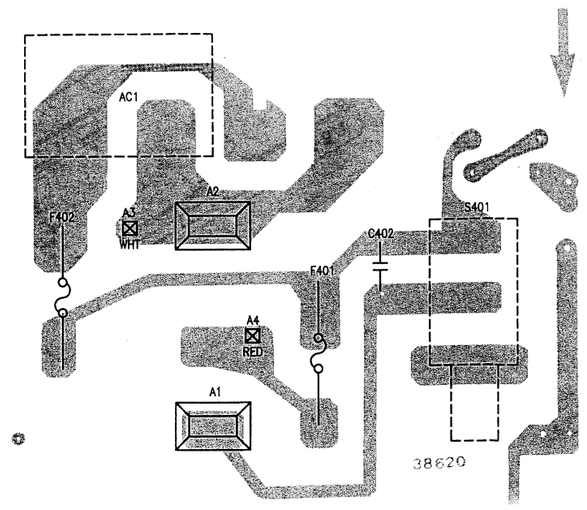
P C Board-Solder Side

(M30) FRONT PCB



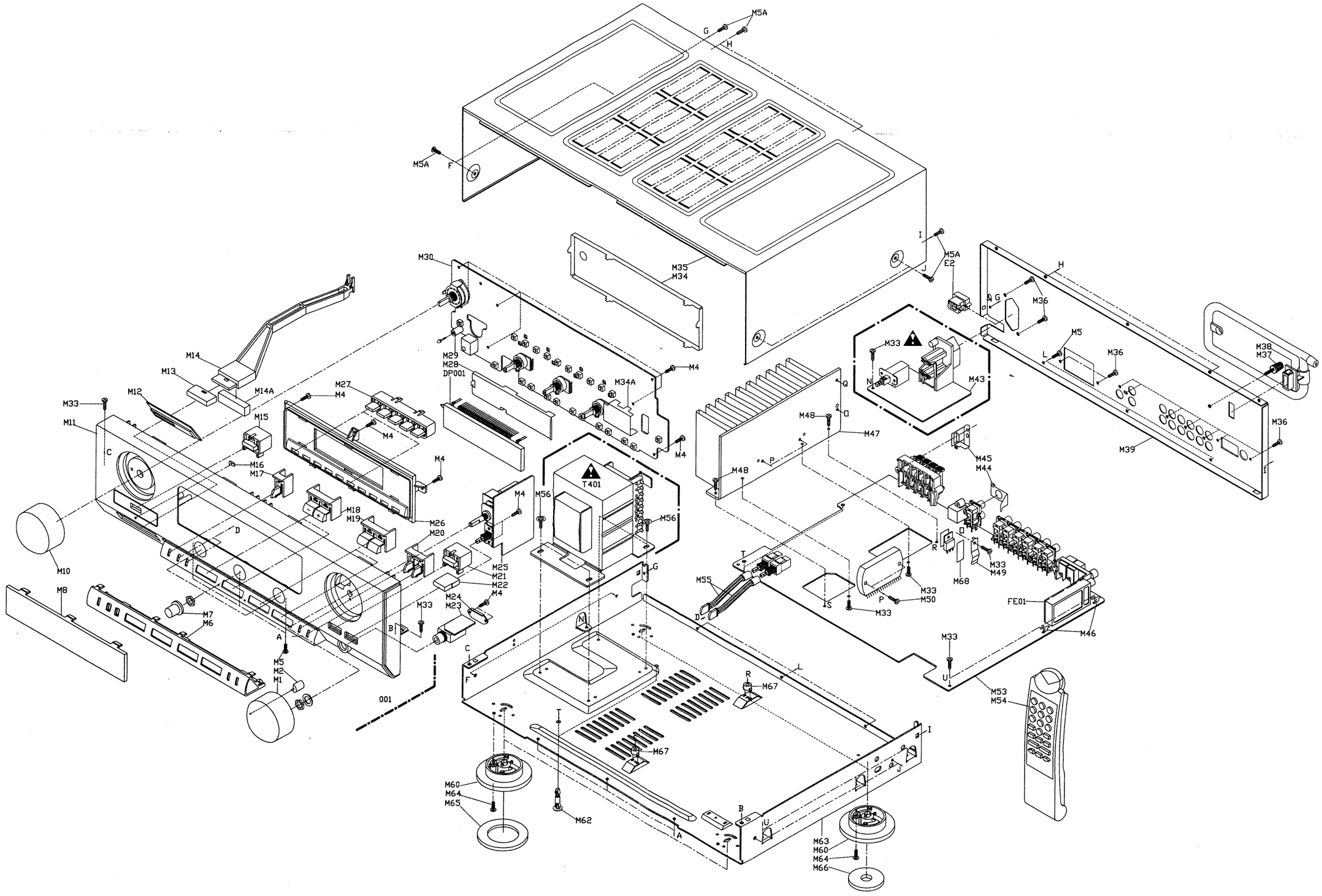


(M25) VOLUME PCB



(M43) POWER SW. PCB

Mechanical Exploded View



Mechanical Parts List

Ref No.	Description	Part No.
M1	Volume knob	4822 413 51444
M2	Volume lens	4822 381 11513
001	Front escutcheon assembly	4822 426 51739
(M6)	Front nose	---- --- -----
(M11)	Front escutcheon	---- --- -----
M7	Tone knob (3 used)	4822 413 41856
M8	Display window	4822 450 62018
M10	Select knob	4822 413 51445
M12	IR window assembly	4822 450 62236
M13	Power knob	4822 410 62451
M14	Power lever	4822 404 10877
M14A	Knob spacer	---- --- -----
M15	Surround button	4822 410 62457
M16	Power lens	4822 381 11514
M17	Sleep button	4822 410 63219
M18	Function button (A) (2 used)	4822 410 63217
M19	Function button (B) (2 used)	4822 410 63218
M20	Memory button	4822 410 63221
M21	Muting button	4822 410 62456
M22	Loudness knob	4822 410 62473
M23	H/P jack PCB assembly	---- --- -----
M24	Phone jack holder	---- --- -----
M25	Volume PCB assembly	---- --- -----
M26	Window base	4822 464 70645
M27	Preset button (2 used)	4822 410 63216
M28	F.T.D holder	---- --- -----
M29	LED holder (305)	---- --- -----
M30	Front PCB assembly	---- --- -----
M34	Shield plate	---- --- -----
M34A	Shield plate (T)	---- --- -----
M35	Top cover	---- --- -----
M37	GND knob Q3	4822 413 90097
M38	Antenna holder	4822 256 92196
M39	Back board	---- --- -----
M43	Power switch PCB assembly	---- --- -----
M44	Earth terminal (S)	4822 290 40497
M45	Earth terminal (R)	---- --- -----
M46	Earth washer (2 used)	4822 530 80692
M47	Heat sink assembly	---- --- -----
M49	Transistor IC holder	4822 255 41328
M53	Main PCB assembly	---- --- -----
M54	Remote transmitter assembly	4822 218 10502
M55	Speaker knob (2 used)	4822 410 62474
M60	Foot (4 used)	4822 462 42093
M62	Spacer support A (2 used)	4822 404 21256
M63	Bottom chassis assembly	---- --- -----
M65	Sole plate F (2 used)	4822 466 62491
M66	Sole plate R (2 used)	4822 466 62491
M67	Spacer supporter (2 used)	---- --- -----
M68	TR. IC spacer	---- --- -----

SCREWS

M4	7 (Taptite-P) BID3010 ZN3A (14 used)	---- --- -----
M5	9 (Taptite-B) BID3008 ZN3K (6 used)	---- --- -----
M5A	9 (Taptite-B) CUP3008 ZN3K (8 used)	---- --- -----
M33	9 (Taptite-B) BID3008 ZN3A (9 used)	---- --- -----
M36	7 (Taptite-P) BID3010 ZN3K (11 used)	---- --- -----
M48	9 (Taptite-B) BID3016 ZN3A (2 used)	---- --- -----
M50	9 (Taptite-B) BID3014 ZN3A (2 used)	---- --- -----
M56	6 (Taptite-S) CUP4006 ZN3A (4 used)	---- --- -----
M64	9 (Taptite-B) BID3010 ZN3A (4 used)	---- --- -----

MISCELLANEOUS

A1	Snow box (R)	---- --- -----
A2	Snow box (L)	---- --- -----
A3	Gift box	---- --- -----
A4	Warranty card	---- --- -----
A5	Soft sheet 60x110cm	---- --- -----
A6	Instruction book-EUR	4822 736 60032
A7	Serial No. label (BLK)	---- --- -----
A8	Serial No. label (WHT)	---- --- -----
A9	G/B label	---- --- -----
A10	Poly bag (I/B) 18x30cm	---- --- -----
A11	PVC sheet 6x10 (2 used)	---- --- -----
A12	Top plate 375x505mm	---- --- -----
A13	Front plate 200x505mm	---- --- -----

Note: ---- --- ----- Indicates a not normally stocked item.

Replacement Parts List

Ref No.	Description	Part No.
	COILS & TRANSFORMER & FILTERS	
L101	AM antenna coil TWS-358-638	4822 156 21683
L102	MW oscillator coil	4822 156 21685
L103	Peaking coil 22uH "K"	4822 157 70206
L104	Peaking coil 22uH "K"	4822 157 70206
L105	Inductance 39mH "K"	4822 156 21684
L106	Inductance 39mH "K"	4822 156 21684
L107	Peaking coil 22uH "K"	4822 157 70206
L201	Spring coil 1.0uH	4822 157 70362
L202	Spring coil 1.0uH	4822 157 70362
L203	Ring coil 3.7mH	4822 157 70364
L204	Ring coil 3.7mH	4822 157 70364
L301	Peaking coil 470uH "K"	4822 157 70363
BPF101	FM antenna coil	4822 157 60042
T101	AM IFT R22-E792	4822 157 60039
T102	FM DET (A) TWS-358-636	4822 156 21686
T103	FM DET (B) TWS-358-637	4822 156 21687
T104	FTZ L.P.F. 10FE01	4822 156 21682
X001	Resonator CSA8.00MT	5322 242 72897
CF101	Ceramic filter SFE10.7MS3GYM (RED)	4822 242 72243
CF102	Ceramic filter SFE10.7MS3GYM (RED)	4822 242 72243
CF103	Ceramic filter SFZ450G3L	4822 242 81377
CF104	Ceramic filter CSB456F11	4822 242 81117
▲ T401	Power transformer EI-86	4822 146 31404

CAPACITORS

Note: All capacitors are Multi-layer ceramic type, unless otherwise noted.
C=±0.25pF D=±0.5pF J=±5% K=±10% M=±20%
Z=+80/-20%

CH: Temperature compensation capacitor, temperature draft within 0±60PPM/°C.

TC101	Trimmer capacitor 10pF			4822 125 50628
TC102	Trimmer capacitor 30pF			4822 125 50634
C001	47uF/10V	(M)	Electrolytic	4822 124 80429
C002	.01uF/16V	(K)		4822 126 12545
C003	.1uF/50V	(Z)		4822 126 12539
C004	.1uF/50V	(Z)		4822 126 12539
C005	27pF/50V	(J)		4822 126 12543
C006	27pF/50V	(J)		4822 126 12543
C007	.1uF/50V	(Z)		4822 126 12539
C008	.1uF/50V	(Z)		4822 126 12539
C009	.1F/5.5V	(Z)	Gold	4822 124 80438
C010	.1uF/50V	(Z)		4822 126 12539
C011	.1uF/50V	(Z)		4822 126 12539
C012	.1uF/50V	(Z)		4822 126 12539
C013	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C014	.1uF/50V	(Z)		4822 126 12539
C015	.022uF/25V	(Z)		4822 126 12547
C016	100uF/10V	(M)	Electrolytic	4822 124 80426
C017	.1uF/50V	(Z)		4822 126 12539
C018	.022uF/25V	(Z)		4822 126 12547
C019	.1uF/50V	(Z)		4822 126 12539
C020	.1uF/50V	(Z)		4822 126 12539
C021	.1uF/50V	(Z)		4822 126 12539
C101	.022uF/25V	(Z)		4822 126 12547
C102	47uF/16V	(M)	Electrolytic	4822 124 40433
C103	.022uF/25V	(Z)		4822 126 12547
C104	.022uF/25V	(Z)		4822 126 12547
C106	.022uF/25V	(Z)		4822 126 12547
C107	.022uF/25V	(Z)		4822 126 12547
C108	.022uF/25V	(Z)		4822 126 12547
C109	.022uF/25V	(Z)		4822 126 12547
C110	47uF/16V	(M)	Electrolytic	4822 124 40433
C111	100pF/50V	(K)		4822 126 12532
C112	.022uF/25V	(Z)		4822 126 12547
C113	1uF/50V	(M)	Electrolytic	4822 124 40242
C114	.001uF/50V	(K)		4822 126 12533
C115	.022uF/25V	(Z)		4822 126 12547
C116	.022uF/50V	(Z)	Ceramic	4822 126 13073
C117	.047uF/50V	(Z)		4822 126 12541
C118	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C119	.022uF/25V	(Z)		4822 126 12547
C120	.01uF/50V	(J)	Mylar	4822 121 41857
C121	3.3uF/50V	(M)	Electrolytic	4822 124 80428
C122	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C123	.022uF/25V	(Z)		4822 126 12547
C124	10uF/25V	(M)	Electrolytic	4822 124 42417
C125	.022uF/25V	(Z)		4822 126 12547
C126	47uF/16V	(M)	Electrolytic	4822 124 40433
C127	47uF/16V	(M)	Electrolytic	4822 124 40433
C128	470pF/100V	(J)	Polypropylene	4822 121 43381
C129	27pF/50V	(J)		4822 126 12543
C130	.022uF/50V	(Z)	Ceramic	4822 126 13073
C131	.22uF/50V	(M)	Electrolytic	4822 124 40746
C132	.022uF/50V	(Z)	Ceramic	4822 126 13073
C133	560pF/50V	(K)		4822 126 12536
C134	.022uF/25V	(Z)		4822 126 12547
C135	.022uF/25V	(Z)		4822 126 12547
C136	.022uF/25V	(Z)		4822 126 12547
C137	1uF/50V	(M)	Electrolytic "LN"	4822 124 80895
C138	100uF/25V	(M)	Electrolytic	4822 124 40207
C140	27pF/50V	(J)	Ceramic "CH"	5322 122 32776
C141	27pF/50V	(J)	Ceramic "CH"	5322 122 32776
C142	.022uF/25V	(Z)		4822 126 12547
C144	.022uF/25V	(Z)		4822 126 12547
C145	.33uF/50V	(M)	Electrolytic	4822 124 40748
C146	10uF/25V	(M)	Electrolytic "NON, BP"	4822 124 80434
C147	680pF/100V	(J)	Polypropylene	4822 121 43382
C148	10uF/25V	(M)	Electrolytic	4822 124 42417
C149	.047uF/50V	(J)	Mylar	4822 121 43526
C150	510pF/100V	(J)	Polypropylene	4822 121 70536
C151	510pF/100V	(J)	Polypropylene	4822 121 70536
C152	10uF/25V	(M)	Electrolytic	4822 124 42417
C153	10uF/25V	(M)	Electrolytic	4822 124 42417
C154	.001uF/50V	(J)	Mylar	4822 121 43897
C155	.001uF/50V	(J)	Mylar	4822 121 43897
C156	.001uF/50V	(J)	Mylar	4822 121 43897
C157	.001uF/50V	(J)	Mylar	4822 121 43897
C158	10uF/25V	(M)	Electrolytic	4822 124 42417
C159	1uF/50V	(M)	Electrolytic	4822 124 40242
C160	1uF/50V	(M)	Electrolytic	4822 124 40242
C161	.22uF/50V	(M)	Electrolytic	4822 124 40746
C162	1uF/50V	(M)	Electrolytic	4822 124 40242
C163	.022uF/25V	(Z)		4822 126 12547
C164	220uF/25V	(M)	Electrolytic	4822 124 41716
C165	.022uF/25V	(Z)		4822 126 12547
C166	100pF/50V	(K)		4822 126 12532
C168	10uF/25V	(M)		4822 124 42417
C169	47uF/16V	(M)		4822 124 40433
C170	47pF/50V	(J)		4822 126 12544
C201	100pF/50V	(K)		4822 126 12532
C202	100pF/50V	(K)		4822 126 12532
C203	100pF/50V	(K)		4822 126 12532
C204	100pF/50V	(K)		4822 126 12532
C205	1uF/50V	(M)	Electrolytic	4822 124 40242
C206	1uF/50V	(M)	Electrolytic	4822 124 40242
C207	100pF/50V	(K)		4822 126 12532
C208	100pF/50V	(K)		4822 126 12532
C209	22uF/16V	(M)	Electrolytic	5322 124 41431
C210	22uF/16V	(M)	Electrolytic	5322 124 41431
C211	.022uF/25V	(Z)		4822 126 12547
C212	.022uF/25V	(Z)		4822 126 12547
C213	100uF/25V	(M)	Electrolytic	4822 124 40207
C214	100uF/25V	(M)	Electrolytic	4822 124 40207
C215	.0047uF/50V	(J)	Mylar	4822 121 70262
C216	.0047uF/50V	(J)	Mylar	4822 121 70262
C217	.0015uF/50V	(J)	Mylar	5322 121 70042
C218	.0015uF/50V	(J)	Mylar	5322 121 70042

Replacement Parts List (Continued)

Ref No.	Description			Part No.
C223	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C224	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C225	100pF/50V	(K)		4822 126 12532
C226	100pF/50V	(K)		4822 126 12532
C227	100pF/50V	(K)		4822 126 12532
C228	100pF/50V	(K)		4822 126 12532
C229	100pF/50V	(K)		4822 126 12532
C230	100pF/50V	(K)		4822 126 12532
C231	100pF/50V	(K)		4822 126 12532
C232	100pF/50V	(K)		4822 126 12532
C233	100pF/50V	(K)		4822 126 12532
C234	100pF/50V	(K)		4822 126 12532
C235	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C236	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C237	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C238	100pF/50V	(K)		4822 126 12532
C239	100pF/50V	(K)		4822 126 12532
C240	47uF/25V	(M)	Electrolytic	4822 124 40433
C241	47uF/25V	(M)	Electrolytic	4822 124 40433
C242	100uF/25V	(M)	Electrolytic	4822 124 40207
C243	100uF/25V	(M)	Electrolytic	4822 124 40207
C244	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C245	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C246	470pF/50V	(K)		4822 126 12535
C247	470pF/50V	(K)		4822 126 12535
C248	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C249	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C250	1uF/50V	(M)	Electrolytic "NON, BP"	4822 124 80435
C251	1uF/50V	(M)	Electrolytic "NON, BP"	4822 124 80435
C252	2.2uF/50V	(M)	Electrolytic "NON, BP"	4822 124 80436
C253	2.2uF/50V	(M)	Electrolytic "NON, BP"	4822 124 80436
C254	820pF/50V	(K)		4822 126 12538
C255	820pF/50V	(K)		4822 126 12538
C256	220pF/50V	(K)		4822 126 12534
C257	220pF/50V	(K)		4822 126 12534
C258	47uF/25V	(M)	Electrolytic	4822 124 40433
C259	47uF/25V	(M)	Electrolytic	4822 124 40433
C260	47uF/50V	(M)	Electrolytic	4822 124 40246
C261	47uF/50V	(M)	Electrolytic	4822 124 40246
C263	10uF/63V	(M)	Electrolytic	4822 124 40248
C264	100uF/63V	(M)	Electrolytic	4822 124 40255
C266	.1uF/50V	(J)	Mylar	4822 121 70259
C267	.1uF/50V	(J)	Mylar	4822 121 70259
C268	.022uF/25V	(Z)		4822 126 12547
C269	.022uF/25V	(Z)		4822 126 12547
C270	1uF/50V	(M)	Electrolytic	4822 124 40242
C271	.01uF/16V	(K)		4822 126 12545
C272	.01uF/16V	(K)		4822 126 12545
C273	.01uF/16V	(K)		4822 126 12545
C274	.01uF/16V	(K)		4822 126 12545
C275	.0022uF/16V	(K)		4822 126 12546
C276	.0022uF/16V	(K)		4822 126 12546
C277	100pF/50V	(K)		4822 126 12532
C278	100pF/50V	(K)		4822 126 12532
C279	680pF/50V	(K)		4822 126 12537
C280	1uF/50V	(M)	Electrolytic "NON"	4822 124 80435
C301	220uF/25V	(M)	Electrolytic	4822 124 41716
C302	47uF/16V	(M)	Electrolytic	4822 124 40433
C303	47uF/16V	(M)	Electrolytic	4822 124 40433
C304	220uF/25V	(M)	Electrolytic	4822 124 41716
C305	1000uF/35V	(M)	Electrolytic	4822 124 80427
C306	470uF/35V	(M)	Electrolytic	4822 124 41334
C307	4700uF/63V	(M)	Electrolytic "TSW"	4822 124 80432
C308	4700uF/63V	(M)	Electrolytic "TSW"	4822 124 80432
C309	.01uF/500V	(Z)	Ceramic F:5mm	4822 124 80684
C310	.01uF/500V	(Z)	Ceramic F:5mm	4822 124 80684

Ref No.	Description			Part No.
C311	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C312	220uF/35V	(M)	Electrolytic	4822 124 41716
C313	47uF/16V	(M)	Electrolytic	4822 124 40433
C314	.022uF/50V	(Z)	Ceramic	4822 126 13073
C315	.022uF/50V	(Z)	Ceramic	4822 126 13073
C317	2.2uF/50V	(M)	Electrolytic	4822 124 40244
C319	.022uF/25V	(Z)		4822 126 12547
C320	.022uF/25V	(Z)		4822 126 12547
C321	.1uF/50V	(Z)		4822 126 12539
C322	.1uF/50V	(Z)		4822 126 12539
C323	.022uF/25V	(Z)		4822 126 12547
C324	10uF/25V	(M)	Electrolytic "NON, BP"	4822 124 80434
C325	.1uF/50V	(Z)		4822 126 12539
▲ C402	4700pF/AC400V		Spark "L"	4822 124 22017
C501	.039uF/50V	(J)	Mylar	4822 121 70261
C502	.039uF/50V	(J)	Mylar	4822 121 70261
C503	100uF/25V	(M)	Electrolytic	4822 124 40207
C504	.01uF/16V	(K)		4822 126 12545
C505	.1uF/50V	(Z)		4822 126 12539
C601	220pF/50V	(K)		4822 126 12534
C602	220pF/50V	(K)		4822 126 12534
C603	4.7uF/50V	(M)	Electrolytic "MINI"	4822 124 20726
C604	4.7uF/50V	(M)	Electrolytic "MINI"	4822 124 20726
C605	100pF/50V	(K)		4822 126 12532
C606	100pF/50V	(K)		4822 126 12532
C607	22pF/50V	(J)		4822 126 12542
C608	22pF/50V	(J)		4822 126 12542
C609	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C610	4.7uF/50V	(M)	Electrolytic	4822 124 80431
C611	.047uF/50V	(J)	Mylar	4822 121 43526
C612	.047uF/50V	(J)	Mylar	4822 121 43526
C613	.33uF/50V	(M)	Electrolytic	4822 124 40748
C614	.33uF/50V	(M)	Electrolytic	4822 124 40748
C615	.0068uF/50V	(J)	Mylar	4822 121 70263
C616	.0068uF/50V	(J)	Mylar	4822 121 70263
C617	.039uF/50V	(J)	Mylar	4822 121 70261
C618	.039uF/50V	(J)	Mylar	4822 121 70261
C619	10uF/25V	(M)	Electrolytic	4822 124 42417
C620	10uF/25V	(M)	Electrolytic	4822 124 42417
C621	.1uF/50V	(Z)		4822 126 12539
C622	.1uF/50V	(Z)		4822 126 12539
C623	2.2uF/50V	(M)	Electrolytic	4822 124 40244
C624	2.2uF/50V	(M)	Electrolytic	4822 124 40244

RESISTORS

Note: All resistors are carbon film, ±5% and 1/6 watt, unless otherwise noted.

R001	47K ohm	4822 050 14703
R002	100 ohm	4822 050 11001
R003	47K ohm	4822 050 14703
R004	18K ohm	4822 050 11803
R005	47K ohm	4822 050 14703
R006	47K ohm	4822 050 14703
R007	47K ohm	4822 050 14703
R008	47K ohm	4822 050 14703
R009	18K ohm	4822 050 11803
R010	47K ohm	4822 050 14703
R011	47K ohm	4822 050 14703
R014	4.7K ohm	4822 050 14702
R015	22K ohm	4822 050 12203
R016	22K ohm	4822 050 12203
R017	22K ohm	4822 050 12203
R018	22K ohm	4822 050 12203
R019	22K ohm	4822 050 12203
R020	22K ohm	4822 050 12203
R021	100 ohm	4822 050 11001
R022	100K ohm	4822 050 11004
R023	100K ohm	4822 050 11004

Replacement Parts List (Continued)

Ref No.	Description	Part No.
R024	2.2K ohm	4822 050 12202
R025	22K ohm	4822 050 12203
R026	22K ohm	4822 050 12203
R028	270 ohm	4822 116 52217
R029	10K ohm	4822 050 11003
R031	47K ohm	4822 050 14703
R032	47K ohm	4822 050 14703
R033	10K ohm	4822 050 11003
R034	10K ohm	4822 050 11003
R101	330 ohm	4822 050 13301
R103	390 ohm	4822 050 13901
R104	330K ohm	4822 116 52272
R105	1K ohm	4822 050 11002
R106	330 ohm	4822 050 13301
R107	22K ohm	4822 050 12203
R108	100K ohm, 1/4W	4822 050 21004
R109	100K ohm	4822 050 11004
R110	56K ohm	4822 050 15603
R111	3.3K ohm	4822 050 13302
R112	5.6K ohm	4822 050 15602
R113	27K ohm, 1/4W	4822 111 31014
R114	82 ohm	4822 050 18209
R115	1.8K ohm	4822 051 51802
R116	1K ohm	4822 050 11002
R117	2.2K ohm	4822 050 12202
R118	10K ohm	4822 050 11003
R119	10K ohm	4822 050 11003
R120	68K ohm	4822 050 16803
R121	3.3K ohm, 1/4W	4822 050 23302
R122	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193
R123	220 ohm, 1/4W	4822 050 22201
R124	330 ohm	4822 050 13301
R125	100K ohm	4822 050 11004
R126	100K ohm	4822 050 11004
R127	4.7K ohm	4822 050 14702
R128	1K ohm	4822 050 11002
R129	10K ohm	4822 050 11003
R130	8.2K ohm	4822 050 18202
R131	6.8K ohm	4822 050 16802
R132	2.2K ohm, 1/4W	4822 050 22202
R133A	10K ohm	4822 050 11003
R136	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R137	4.7K ohm, 1/4W	4822 050 24702
R138	4.7K ohm	4822 050 14702
R139	15K ohm	4822 050 11503
R140	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R141	4.7K ohm	4822 050 14702
R142	100K ohm	4822 050 11004
R143	100K ohm	4822 050 11004
R146	3.3K ohm	4822 050 13302
R147	3.3K ohm	4822 050 13302
R148	3.3K ohm	4822 050 13302
R149	3.3K ohm	4822 050 13302
R150	10K ohm	4822 050 11003
R151	5.6K ohm	4822 050 15602
R152	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R153	100K ohm	4822 050 11004
R154	1K ohm	4822 050 11002
R155	4.7K ohm, 1/4W	4822 050 24702
R156	4.7K ohm, 1/4W	4822 050 24702
R157	2.7K ohm	4822 111 31013
R158	5.6K ohm	4822 050 15602
R159	680K ohm	4822 116 52298
R201	150 ohm	4822 050 11501
R202	150 ohm	4822 050 11501
R203	560K ohm	4822 050 15604
R204	560K ohm	4822 050 15604
R205	56K ohm	4822 050 15603
R206	56K ohm	4822 050 15603
R207	1K ohm	4822 050 11002
R208	1K ohm	4822 050 11002
R209	100K ohm	4822 050 11004
R210	100K ohm	4822 050 11004
R211	1K ohm	4822 050 11002
R212	1K ohm	4822 050 11002
R213	47K ohm	4822 050 14703
R214	47K ohm	4822 050 14703
R215	510K ohm	4822 050 15104
R216	510K ohm	4822 050 15104
R217	100K ohm	4822 050 11004
R218	100K ohm	4822 050 11004
R219	1K ohm, 1/4W	4822 050 21002
R220	1K ohm	4822 050 11002
R221	220 ohm	4822 050 12201
R222	220 ohm	4822 050 12201
R223	560 ohm	4822 050 15601
R224	560 ohm	4822 050 15601
R225	220 ohm	4822 050 12201
R226	220 ohm	4822 050 12201
R227	560 ohm	4822 050 15601
R228	560 ohm	4822 050 15601
R229	220 ohm	4822 050 12201
R230	220 ohm	4822 050 12201
R231	56K ohm	4822 050 15603
R232	56K ohm	4822 050 15603
R233	1K ohm	4822 050 11002
R234	1K ohm	4822 050 11002
R235	100K ohm	4822 050 11004
R236	100K ohm	4822 050 11004
R237	68K ohm	4822 050 16803
R238	68K ohm	4822 050 16803
R239	100K ohm	4822 050 11004
R240	100K ohm	4822 050 11004
R241	2.2K ohm	4822 050 12202
R242	2.2K ohm	4822 050 12202
R243	100K ohm	4822 050 11004
R244	100K ohm	4822 050 11004
R245	33K ohm	4822 050 13303
R246	33K ohm	4822 050 13303
R247	1K ohm	4822 050 11002
R248	1K ohm	4822 050 11002
R249	180K ohm	4822 050 11804
R250	8.2K ohm	4822 050 18202
R251	100K ohm	4822 050 11004
R252	47K ohm, 1/4W	4822 050 24703
R253	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R254	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R255	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R256	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R257	2.2K ohm	4822 050 12202
R258	2.2K ohm	4822 050 12202
R259	100K ohm	4822 050 11004
R260	100K ohm	4822 050 11004
R261	180K ohm	4822 050 11804
R262	180K ohm	4822 050 11804
R263	22K ohm	4822 050 12203
R264	22K ohm	4822 050 12203
R265	220 ohm, 1/4W	4822 050 22201
R266	220 ohm	4822 050 12201
R267	22K ohm	4822 050 12203
R268	22K ohm	4822 050 12203
R269	56K ohm, 1/4W	4822 050 25603
R270	56K ohm, 1/4W	4822 050 25603
R271	1K ohm, 1/4W	4822 050 21002
R272	1K ohm, 1/4W	4822 050 21002
R273	56K ohm, 1/4W	4822 050 25603
R274	56K ohm, 1/4W	4822 050 25603
R275	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192

Replacement Parts List (Continued)

Ref No.	Description	Part No.
R276	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R277	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R278	3.3K ohm, 1/2W Metal (Flame-proof)	4822 117 10192
R279	100 ohm, 1/4W	5322 116 55549
R280	1K ohm, 1/2W Metal (Flame-proof)	4822 117 10191
R281	1K ohm, 1/2W Metal (Flame-proof)	4822 117 10191
R282	0.1 ohm, 3W Cement ±20%	4822 113 90241
R283	0.1 ohm, 3W Cement ±20%	4822 113 90241
R284	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193
R285	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193
R286	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188
R287	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188
R288	4.7K ohm	4822 050 14702
R289	2.2K ohm, 1/4W	4822 050 22202
R290	2.2K ohm, 1/4W	4822 050 22202
R291	15K ohm, 1/4W	4822 050 21503
R292	15K ohm, 1/4W	4822 050 21503
R293	12K ohm, 1/4W	4822 050 21203
R294	12K ohm, 1/4W	4822 050 21203
R295	2.2K ohm, 1/4W	4822 050 22202
R296	47K ohm, 1/4W	4822 050 24703
R297	330 ohm, 2W Metal (Flame-proof)	4822 117 10122
R298	330 ohm, 2W Metal (Flame-proof)	4822 117 10122
R299	100K ohm	4822 050 11004
R305	100 ohm, 1/2W Metal (Flame-proof)	4822 117 10189
R306	820 ohm, 1W Metal (Flame-proof)	4822 117 10198
R307	10 ohm, 1/2W Metal (Flame-proof)	4822 117 10188
R308	2.2K ohm	4822 050 12202
R310	1K ohm	4822 050 11002
R311	1K ohm	4822 050 11002
R312	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193
R313	4.7 ohm, 1/2W Metal (Flame-proof)	4822 117 10193
R314	22K ohm, 1/4W	4822 116 52257
R316	56K ohm	4822 050 15603
R323	100K ohm	4822 050 11004
R324	100K ohm	4822 050 11004
R501	6.8K ohm	4822 050 16802
R502	6.8K ohm	4822 050 16802
R504	33 ohm, 1/4W Fuse	4822 117 10187
R505	10 ohm	4822 050 11009
R601	1K ohm	4822 050 11002
R602	1K ohm	4822 050 11002
R603	220K ohm	4822 050 12204
R604	220K ohm	4822 050 12204
R605	560K ohm	4822 050 15604
R606	560K ohm	4822 050 15604
R607	560K ohm	4822 050 15604
R608	560K ohm	4822 050 15604
R609	47K ohm	4822 050 14703
R610	47K ohm	4822 050 14703
R611	9.1K ohm	4822 050 19102
R612	9.1K ohm	4822 050 19102
R613	22K ohm	4822 050 12203
R614	22K ohm	4822 050 12203
R615	1.2K ohm	4822 050 11202
R616	1.2K ohm	4822 050 11202
R617	680 ohm	4822 050 16801
R618	680 ohm	4822 050 16801
R619	270 ohm	4822 116 52217
R620	270 ohm	4822 116 52217
R621	1.8K ohm	4822 051 51802
R622	1.8K ohm	4822 051 51802
R623	12K ohm	4822 050 11203
R624	12K ohm	4822 050 11203
R625	10K ohm	4822 050 11003
R626	10K ohm	4822 050 11003
R629	1.5K ohm	4822 050 11502
R630	1.5K ohm	4822 050 11502
FR201	100 ohm, 1/2W Fuse	4822 117 10197
▲ FR301	1 ohm, 1/2W Fuse	4822 111 91493
▲ FR302	1 ohm, 1/2W Fuse	4822 111 91493

SEMICONDUCTORS

IC001	TMP87PM70F	4822 209 32048
IC101	LA1266	4822 209 71785
IC102	LA3401	4822 209 73434
IC103	LC7218	4822 209 30178
IC201	NJM4558DD	4822 209 81054
IC202	NJM4558DD	4822 209 81054
IC203	NJM4558DD	4822 209 81054
IC204	STK4192-2	4822 209 70441
IC205	LC7821	4822 209 72748
▲ IC301	MC7815CT	5322 209 71759
▲ IC302	MC7915CT	5322 209 86361
▲ IC303	NJM78L06	4822 209 83819
IC501	LB1641	4822 209 30193
IC601	NJM4558S	4822 209 73303
Q001	2SC945P,Q	4822 130 41198
Q002	2SA733P,Q	4822 130 61867
Q003	2SC945P,Q	4822 130 41198
Q004	2SA733P,Q	4822 130 61867
Q008	2SC945P,Q	4822 130 41198
Q009	2SC945P,Q	4822 130 41198
Q010	2SC945P,Q	4822 130 41198
Q012	2SC945P,Q	4822 130 41198
Q013	2SA733P,Q	4822 130 61867
Q101	2SK161GR, FET	4822 130 63222
Q102	2SC1675L	4822 130 41595
Q105	DTC144ES	4822 130 42594
Q106	DTC144ES	4822 130 42594
Q107	DTA114ES	4822 130 60766
Q108	DTA114ES	4822 130 60766
Q109	2SC945P,Q	4822 130 41198
Q110	2SC945P,Q	4822 130 41198
Q111	2SC945P,Q	4822 130 41198
Q112	2SC2878A	4822 130 62904
Q113	2SC2878A	4822 130 62904
Q201	2SK246GR, FET	4822 130 60098
Q202	DTA144ES	4822 130 42594
Q203	DTA144ES	4822 130 42594
Q204	2SC1841E	4822 130 42388
Q205	2SC2878A	4822 130 62904
Q206	2SC2878A	4822 130 62904
Q207	2SC2878A	4822 130 62904
Q208	2SC2878A	4822 130 62904
Q209	2SA988E	4822 130 42386
Q210	2SC1841E	4822 130 42388
Q211	2SC1841E	4822 130 42388
Q302	2SC945P,Q	4822 130 41198
▲ Q303	2SA965Y	4822 130 63221
X101	X'TAL 7.2MHz	4822 242 71875
D001	1SS176	4822 130 33861
D002	1SS176	4822 130 33861
D004	1SS176	4822 130 33861
D005	1SS176	4822 130 33861

Replacement Parts List (Continued)

Ref No.	Description	Part No.
D006	1SS176	4822 130 33861
D007	LTL-4222N, LED (RED)	4822 130 83205
D008	1N4148	4822 130 30621
D009	1N4148	4822 130 30621
D010	1N4148	4822 130 30621
D011	1N4148	4822 130 30621
D101	1N4148	4822 130 30621
D102	1SS176	4822 130 33861
D103	1SS176	4822 130 33861
D104	1SS176	4822 130 33861
D105	1SS176	4822 130 33861
D108	1SS176	4822 130 33861
D109	1N4148	4822 130 30621
D201	1SS176	4822 130 33861
D202	1SS176	4822 130 33861
D204	1SS176	4822 130 33861
D205	1SS176	4822 130 33861
D206	RD5.1EB2, Zener	4822 130 32897
D207	1N4148	4822 130 30621
◣D301	GBU4D	4822 130 83302
◣D302	W02G	4822 130 83476
D303	RD5.1EB2, Zener	4822 130 32897
D304	RD27EB2, Zener	4822 130 80209
D308	1SS176	4822 130 33861
D309	1SS176	4822 130 33861
D501	MTZ5.1C, Zener	4822 130 82667
VD101	KV1236Z (WHT/BLK)	4822 130 33787

VARIABLE RESISTORS

SFR101	Semi-fixed resistor 100KX (AM lock sense adjustment)	4822 100 11968
SFR102	Semi-fixed resistor 200KX (FM lock sense adjustment)	4822 100 11969
SFR103	Semi-fixed resistor 100KX (FM separation adjustment)	4822 100 11968
VR501	Variable resistor 50KBx2 RK16312MS019-CP	4822 101 21216
VR601	Variable resistor 100KW RK161140044-CP	4822 101 21214
VR602	Variable resistor 100KBx2 RK16K124A014-CP	4822 101 21215
VR603	Variable resistor 100KBx2 RK16K124A014-CP	4822 101 21215

SWITCHES

S001	Rotary switch MSB1.12P-20L "C" (Input selector)	4822 273 20373
S003	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S004	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S005	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S006	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S007	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S008	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S009	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S010	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S011	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S012	Tact switch SKHVBB3420-CP (Memory preset station)	4822 276 13372
S013	Tact swoitch SKHVBB3420-CP (Surround/Spatial)	4822 276 13372
S014	Tact switch SKHVBC3430-CP (FM/AM band)	4822 276 13373
S015	Tact switch SKHVBC3430-CP (Tuning up)	4822 276 13373
S016	Tact switch SKHVBC3430-CP (Preaet up)	4822 276 13373
S017	Tact switch SKHVBC3430-CP (Display)	4822 276 13373
S018	Tact switch SKHVBC3430-CP (Memory)	4822 276 13373
S019	Tact switch SKHVBB3420-CP (Mute)	4822 276 13372
S020	Tact switch SKHVBC3430-CP (FM mode)	4822 276 13373
S021	Tact switch SKHVBC3430-CP (Tuning down)	4822 276 13373
S022	Tact switch SKHVBC3430-CP (Preset down)	4822 276 13373
S023	Tact switch SKHVBC3430-CP (Frequency direct)	4822 276 13373
S024	Tact switch SKHVBC3430-CP (Station name display)	4822 276 13373
S025	Tact switch SKHVBC3430-CP (Sleep)	4822 276 13373
S201	Push switch SPUL19C611-CP (Speaker A)	4822 276 13363
S202	Push switch SPUL19C611-CP (Speaker B)	4822 276 13363
▲ S401	Power switch SDDLD1107U-CP (Power)	4822 276 13374
S501	Push switch SPUL12A207-CP (Loudness)	4822 276 13375

MISCELLANEOUS

HP201	Headphone jack JY-6317-01-030G3	4822 267 31625
JK101	2P antenna terminal	4822 290 81552
JK201	4P RCA jack	4822 267 41082
JK202	4P RCA jack	4822 267 41082
JK203	4P RCA jack	4822 267 41082
JK205	2P RCA jack RJ-1020-110 (G)	4822 267 41084
JK206	RCA jack 1P 0501015-C	4822 267 31616
JK207	8P speaker terminal	4822 290 81562
CN1	3P FTW top base	---- --- -----
CN1'	Wire holder 3P20	---- --- -----
CN2	11P FTW top base	---- --- -----
CN2'	Wire holder 11P20	---- --- -----
CN4	5P FTW top base	---- --- -----
CN4'	Wire holder 5P20	---- --- -----
CN5	3P FTW top base	---- --- -----
CN5'	Wire holder 3P20	---- --- -----
CN6	2P FTW top base	---- --- -----
CN6'	Wire holder 2P20	---- --- -----
CN7	6P FTW top base	---- --- -----
CN7'	Wire holder 6P20	---- --- -----
CN8	3P FTW top base	---- --- -----
CN8'	Wire holder 4P20	---- --- -----
CN15	6P FTW top base	---- --- -----
CN15'	Wire holder 6P20	---- --- -----
FE01	FM front end FE415-G11B	4822 210 10614
RY201	Relay VB-24MBU	4822 280 80764
RM001	Remote pre-amplifier LTM-9052A4	4822 218 10499
DP001	VFT Display 8-BT-130GK	4822 130 91217
▲ F401	Fuse BS T2A/250V	4822 253 50162
▲ F402	Fuse BS T1A/250V	4822 253 50161
▲ AC1	AC outlet YKE31-0090	4822 267 20437
▲ E1	AC cord VDE 7.5F BLK2	4822 321 10926
E2	Cord stopper 2271	4822 325 80504
E3	AM loop antenna coil AJ-2017	4822 303 40059
E4	Battery UM4E (PHILIPS) (2 used)	---- --- -----

Note: ---- --- ----- Indicates a not normally stocked item.

Replacement Parts List (Continued)

Ref No.	Description	Part No.
E5	FM indoor antenna	4822 303 50073
E6	Insulator (mica) between heat sink and IC (IC103)	---- --- -----
E8	RCA cable BLK-1M (GRN) (2 used)	4822 321 61875
E9	H/P jack PCB (Blank)	---- --- -----
E12	Main PCB (Blank)	---- --- -----
E13	Front PCB (Blank)	---- --- -----
E14	Power switch PCB (Blank)	---- --- -----
E15	Volume PCB (Blank)	---- --- -----
E16	Fuse holder PFC5000-0202T (4 used)	---- --- -----
E18	Square terminal pin on PCB (14 used)	---- --- -----
E19	Long square terminal pin on PCB (2 used)	---- --- -----
E20	Square terminal pin on PCB (2 used)	---- --- -----
E22	75 ohm antenna socket N0004A	4822 265 20621

Note: ---- --- ----- Indicates a not normally stocked item.